

1 16. (Amended) An electrosurgery apparatus as set forth in
2 claim 15 [2 characterised in that] wherein the at least one
3 electrode [or electrodes (32, 33, 62, 63)] and the electrode
4 carrier [(31, 61a-c)] are heatable to a temperature of more than
5 [37 degrees] 37°C.

1 17. (Amended) An electrosurgery apparatus as set forth in
2 claim 14 [any one of the preceding claims characterised in that the
3 electrode or electrodes (62, 63) and/or the electrode carrier (61a,
4 61b) have], comprising:

5 a cavity [(64, 65)] in one of the at least one electrode and
6 the electrode carrier; and

7 wherein [that] the temperature control device includes a
8 temperature-controllable fluid source [(83, 85)] which is in
9 communication with one of the at least one electrode [(62, 63)]
10 [and/or] and the electrode carrier [(61a, 61b)] by way of a
11 quantitative flow control device [(84, 87)].

1 ~~Sub 2~~ 18. (Amended) An electrosurgery apparatus as set forth in
2 ~~[one of claims 14 through 16 characterised in that] claim 14~~
3 ~~wherein one of the electrode [(32, 33, 62, 63) and/or] and the~~
4 ~~electrode carrier [(31, 61a-c)] has a thermoelectric heating and~~
5 ~~cooling device.~~

1 ~~Sub D2~~ 19. (Amended) An electrosurgery apparatus as set forth in
2 ~~claim 14, [characterised in that there is provided] comprising an~~
3 ~~effective temperature profile control device [(87)] which is~~
4 ~~[connected by way of a control signal connection] coupled to the~~
5 ~~temperature control device [(83)].~~

1 20. (Amended) An electrosurgery apparatus as set forth in
2 claim 19 [characterised in that] wherein the effective temperature
3 profile control device [(87)] [for controlling the alternating
4 current power is connected by way of a control input to the
5 alternating current source (81)] is coupled to the alternating
6 current source, for sending a control input for controlling the
7 alternating current source.

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21. (Amended) An electrosurgery apparatus as set forth in
2 claim 19 or claim 20 [characterised in that] wherein the effective
3 temperature profile control device [(87) includes] comprises an
4 interactively programmable calculation unit [(87.2)] for
5 determining simulated, time-dependent effective temperature
6 profiles on the basis of parameters of [the] a tissue and the
7 electrode [(82)] and assumed parameters of the alternating current
8 source [(81)] and the temperature control device [(83)], and for
9 varying the assumed parameters to ascertain an optimized, time-
10 dependent effective temperature profile.

sub D3
22. (Amended) An electrosurgery apparatus as set forth in
2 [claims 19] claim 21, [characterised by] comprising at least one
3 low-inertia temperature sensor [(86) which is] connected to an
4 input of the effective temperature profile control device [(87)]
5 and which can be arranged [in the body] adjacent to one of the
6 electrode [(32, 33, 62, 63) or] and the electrode carrier [(31,
7 61a-c)].

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23. (Amended) An electrosurgery apparatus as set forth in
1 claim 22 [characterised in that] wherein the temperature sensor
2 [(86)] is connected to an input of the calculation unit [(87.2)]
3 and that the calculation unit [(87.2) has] comprises means for
4 verification or correction of a simulated, time-dependent effective
5

Sub 6
D4 7 temperature profile on the basis of the measurement signal of the temperature sensor.

Sub 5
1 24. (Amended) An electrosurgery apparatus as set forth in
2 claim 14 [characterised in that] wherein the effective temperature
3 profile control device [has] comprises:

4 means [(87.1, 87.2, 87.6)] for storing and calling up the
5 time-dependency of control signals; and

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cont. 6 means for outputting control signals in accordance with a
7 stored time-dependency.

1 25. (Amended) An electrosurgery apparatus as set forth in
2 claim 14 [characterised in that] wherein the electrode carrier
3 [(31, 61a-c) has] comprises a tubular element [(61a, 61b)] of
4 electrically insulating material with a decreasing[, in particular]
5 conical distal end, the conical distal end having a peripheral
6 surface and an interior, on the peripheral surface of which is
7 arranged the electrode [(62, 63)] and in the interior of which is
8 arranged the temperature control device [(64, 65)].

1 26. (Amended) An electrosurgery apparatus as set forth in
2 claim 14, [characterised by] comprising two electrodes [(32, 33;
3 62, 63)] on the electrode carrier [(31; 61a, 61b)].

REMARKS

Claims 14-26 have been amended for clarity and remain in the application. It is respectfully requested that the changes to the claims be carefully reviewed by the Examiner and entered prior to examination.

Due to the number of amendments, a substitute specification pursuant to 37 C.F.R. §1.125 is submitted herewith to facilitate the prosecution of this application. The substitute specification